

## Abstract

The measuring device comprises a first measuring chamber (8) into which fuel is injected, pressure sensor (62) and a temperature sensor (60) respectively measuring pressure and temperature in the first measuring chamber (8), means enabling the measuring chamber to be at least partially drained, an electronic section controlling the system and analysing information received from the sensors (46, 60, 62). The device also comprises a second measuring chamber (20) arranged downstream from the first measuring chamber (8). Fuel which is drained from the first measuring chamber (8) is sent to said second chamber. The volume of the second measuring chamber (20) can vary according to the displacement of a piston (38). Said displacement is measured with the aid of a displacement sensor (46).

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